

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-8 (Canceled).

Claim 9 (New): A method of manufacturing a glass optical element of a desired shape, comprising:

press molding a heat-softened molding material to form a molded product, said molding material being prepared by solidifying melt glass into a prescribed shape and by providing a carbon-containing layer on a surface of the solidified glass;

subjecting the molded product to UV ozone treatment so that the carbon-containing layer which remains on the surface of the molded product is removed; and

forming an antireflective film on the surface of the molded product being subjected to the UV ozone treatment.

Claim 10 (New): The method according to Claim 9, wherein the UV ozone treatment is carried out so that surface free energy of the surface of the molded product increases up to at least  $60\text{mJ/m}^2$ .

Claim 11 (New): The method according to Claim 10, further comprising storing the molded product prior to forming the antireflective film in an atmosphere of cleanliness class of less than or equal to 1,000.

Claim 12 (New): A method of manufacturing a glass optical element of a desired shape, comprising:

press molding a heat-softened molding material to form an molded product, said molding material being prepared by solidifying melt glass into a prescribed shape;

evaluating a surface of a sample of the molded product so that the molded product having surface free energy of at least  $60\text{ mJ/m}^2$  is determined; and

forming an antireflective film on the surface of said determined molded product.

Claim 13 (New): The method according to Claim 12, wherein the molded product is subjected to UV ozone treatment to increase the surface free energy of the surface of the molded product.

Claim 14 (New): The method according to Claim 12, wherein, as a result of the evaluating, the molded product, which is not determined as having surface free energy of at least 60mJ/m<sup>2</sup>, is subjected to a process of increasing the surface free energy.